Governor's STEM Academy Brief

VIRGINIA DEPARTMENT OF EDUCATION

Office of Career and Technical Education Services

The purpose of the monthly brief is to provide information, resources, and a networking vehicle to support the STEM (science, technology, engineering, and mathematics) Academies in Virginia.

GOVERNOR'S STEM ACADEMIES SPOTLIGHTS

The Cyber-Security team from The Governor's STEM Academy at George C. Marshall High School (Fairfax County) received first and third place awards at the CyberPatriot competition. The CyberPatriot competition was established in 2009 by the Air Force Association to promote cybersecurity education. The team will compete against 11 other high school teams at the National CyberPatriot VII competition in March.

CAREER LINKS—GOVERNMENT & PUBLIC ADMINISTRATION; LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

- Career-related sites for the Law, Public Safety, Corrections & Security Cluster include iseek careers, Law-Related Careers, AAfPE: Paralegal Education, Association of Legal Administrators—Career Center: Career Talk, Recruiter: Law, Public Safety, Corrections and Security Careers, Minority Jobs.Net: Career Guide, and Virginia Career VIEW.
- Visit Division of Law Enforcement, the VCJS Training Manual, and Publications & Links from the Virginia Department of Criminal Justice Services for information on training and employment criteria.
- Crime Scene Investigator Network provides resources on crime scene response, evidence collection, scene and evidence photography, careers in crime scene investigation, and related topics.
- Successful practices in criminal justice are featured on sites like CrimeSolutions.gov, What Works in Reentry Clearinghouse, The Police Chief: Strategies to Improve Recruitment, and COPS: Resource Center.
- For cybersecurity resources, see Homeland Security: Cybersecurity, So You Want to Work in Cybersecurity, Keep Your Business Safe Online, Cybersecurity: It's about way more than countering hackers, and Cyber Information Center.
- For resources on national and international security issues, visit sites including The State of Security, the U.S. Department of Defense, and The White House: Homeland Security.
- Research Government & Public Administration careers at Kids.gov, Junior Achievement Student Center, Public Service Careers.org, and Virginia Career VIEW.
- Guides to employment with the Commonwealth of Virginia and its governmental entities are available at Virginia Jobs, State & Local Government on the Net, GovernmentJobs, and Virginia Municipal League. Virginia Jobs also offers an alphabetical list of Career Guides for opportunities in Virginia government positions.

GRANTS AND OPPORTUNITIES

- Working With Communities serves as a springboard for students to explore ways the National Park Service works with localities to help them preserve natural resources and historically significant places.
- Capitol Classroom, a site developed for teachers and students by the Virginia General Assembly, includes information about House and Senate page programs, Senators and Delegates, the legislative process, legislative terms, guided tours of the Capitol, and related subject areas.

- Georgia Career, Technical, & Agricultural Education: Law & Justice, Justice Teaching, StaySafeOnline.org, Street Law at the University of Washington School of Law, Making Decisions by Group: The Jury System, National Initiative for Cybersecurity Careers and Studies, Your Right to Remain Silent: Miranda v. Arizona, University of North Texas: Law, Public Safety, Corrections & Security, PBS Learning Media: The Supreme Court, and Justice for All in the Courtroom provide lesson plans on topics related to the Law, Public Safety, Corrections & Security Career Cluster.
- The American Bar Association site contains many materials applicable to the classroom, including resources on the use of emerging cybersecurity technologies (Part 1, Part 2) and the Grit Project Program Toolkit, which includes written scenarios with discussion guide, as well as video scenarios.
- For a comprehensive site on juvenile law in Virginia from the Office of the Attorney General, visit Virginia Rules, which is designed for a teen audience and offers teaching resources as well.
- For information on technology in law enforcement, see JustNet, National Institute of Justice: Types of Technology and Tools, and Geospatial Technology Training Resources.
- Explore firefighter and first-responder resources available from the U.S. Fire Administration, National Fire Protection Association, and National Highway Traffic Safety Administration.
- Locate public safety resources at Virginia Department of Emergency Management, Homeland Security News Wire, StaySafeOnline.org, and In Public Safety.
- To find classroom resources on law-related topics, see the National Criminal Justice Reference Service and the Association of Legal Administrators: Legal Management Resource Center.
- See Justice Case Files: A graphic novel series (cases 1–3) for a classroom resource that focuses on ways the criminal justice system can intersect with the lives of high school students.
- In School Curricula on Local Government, the National League of Cities features K–12 educational resources on local government from 12 states. The National League of Cities site also includes Cities 101, an orientation to the structures, powers, and other characteristics of municipal governments, as well as guides and toolkits to help cities and towns achieve their goals.
- National Association of Counties Site Map provides links to resources useful in teaching students about the history, roles, and importance of county government in the United States.
- Explore new and emerging trends in urban planning, such as opportunity mapping (What is opportunity mapping?; Where You Live Makes All The Difference: An Opportunity Map of the Richmond Region), smart utilities (Strategic Directions: Smart Utility Report), and social-equity transportation (Social equity in urban transportation planning).
- For resources related to the U.S. Congress, visit The Dirksen Center Special Projects.
- The Congressional Institute offers visitors a look at the current U.S. Senate and House of Representatives, the legislative process, jobs on Capitol Hill, guidelines for living in Washington, D.C., and related resources.
- Free downloadable publications related to legal resources for Virginia localities are provided by the Virginia Municipal League.
- Lesson plans and other classroom resources about the nature and roles of government are available at ShareMyLesson, econedlink: Roles of Government, Federalism and the Prevention of Abuse of Power in the US Federal Government, Rebuild Your Community, Taxes: Where Does Your Money Go?, Overview of Local Government, and Local Government Curriculum.

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